Attorne Docket No. 5051-631XX PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Robin Pierce Gardner Serial No.: 10/820,633

Filed: April 8, 2004

For: GAMMA RAY DETECTORS HAVING I MPROVED SIGNAL-TO-NOISE RATIO

RELATED SYSTEMS AND METHODS FOR ANALYZING BULK MATERIALS

September 22, 2004

Confirmation No.: 8469

Group Art Unit: 2878

Mail Stop Amendment Commissioner for Patents Box 1450 Alexandria, VA 22313-1450

` INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Sir:

Attached is a form PTO-1449, together with a copy of any listed foreign patent document and/or non-patent literature. A copy of any listed U.S. patent and/or U.S. patent application publication is not provided herewith in accordance with the waiver by the U.S. Patent and Trademark Office of requirements under 37 C.F.R. § 1.98(a)(2)(i) for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.56 and Section 609 of the MPEP.

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. § 1.97(b), within three months of the filing date of the above-referenced application or before the mailing of a first Office Action on the merits, whichever event occurs last. Therefore, no fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

Respectfully submitted,

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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 22, 2004.

Elizabeth J. Porter

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SEP 2 TRADELINES					Applicant: Robin Pierce Gardner				
					Filing Date: April 8, 2004			Group: 2878	
U. S. PATENT DOCUMENTS									
Examiner Initial			Date	Name		Class	Subclass	Filing Date if Appropriate	
	1.	4,764,677	08/16/88	Spurney		250	361		
FOREIGN PATENT DOCUMENTS									
		Document Number	Date	Country		Class	Subclass	Translation Yes No	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
	2.	Bartholomew et al., "THE ^{199Hg (n, Y) 200} Hg REACTION WITH THERMAL NEUTRONS," <i>Canadian Journal of Physics</i> 45 : 1517-1540 (1967).							
	3.	Bartholomew	Bartholomew et al., "SPINS OF LEVELS IN N ¹⁵ , Fe ⁵⁷ , Cu ⁶⁴ , Zr ⁹² , and Hg ²⁰⁰ BY NEUTRON						
		Hoogenboon	CAPTURE Y -RAY DIRECTIONAL CORRELATIONS," Nuclear Physics 50: 209-233 (1964).						
	4.	SCINTILLAT 68 (1958).	Hoogenboom. A.M., "A NEW METHOD IN GAMMA-RAY SPECTROSCOPY: A TWO CRYSTAL SCINTILLATION SPECTROMETER WITH IMPROVED RESOLUTION," <i>Nuclear</i> Instruments 3: 57-68 (1958).						
	5.	U.S. Applicat	U.S. Application 10/820,632, R. P. Gardener, filed April 8, 2004						
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